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SEQUENCE LISTING

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<120> METHODS AND COMPOSITIONS FOR MODULATING LEVELS OF SECONDARY
METABOLIC COMPOUNDS IN PLANTS

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<150> US 60/072156

<151> 1998-01-22

<150> US 09/012453

<151> 1998-01-23

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<170> PatentIn Ver. 2.0

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<212> DNA

<213> *Arthrobacter pascens*

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<213> *Bacillus pumilus*

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15

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Ile His Ser Gly Met Val Gly Gly Arg Trp Val Arg Asp Gln Glu Val
35 40 45

Asn Ile Val Lys Leu Thr Lys Gly Val Tyr Lys Val Ser Trp Thr Glu
50 55 60

Pro Thr Gly Thr Asp Val Ser Leu Asn Phe Met Pro Glu Glu Lys Arg
65 70 75 80

Met His Gly Val Ile Phe Phe Pro Lys Trp Val His Glu Arg Pro Asp
85 90 95

Ile Thr Val Cys Tyr Gln Asn Asp Tyr Ile Asp Leu Met Lys Glu Ser
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Arg Glu Lys Tyr Glu Thr Tyr Pro Lys Tyr Val Val Pro Glu Phe Ala
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Asp Ile Thr Tyr Ile His His Ala Gly Val Asn Asp Glu Thr Ile Ile
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<210> 3

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<212> PRT

<213> *Arthrobacter pascens*

<400> 3

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35 40 45

Asp Arg Gly Val Pro Glu Val Leu Gln Leu Asp Arg Trp Met Glu Leu
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Leu Glu Ser Gly Tyr Asp Trp Asp Tyr Pro Ile Glu Pro Gln Glu Asn
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Gly Asn Ser Phe Met Arg His Ala Arg Ala Lys Ile Met Gly Gly Cys
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Ser Ser His Asn Ser Cys Ile Ala Phe Trp Ala Pro Arg Glu Asp Leu
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Asp Glu Trp Glu Ser Lys Tyr Gly Ala Thr Gly Trp Asn Ala Glu Ser
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Pro Pro Ala Asp Pro Ala Gly Val Ala Leu Leu Asp Ala Cys Glu Gln
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Gly Ala Asn Phe Phe Gln Ile Thr Arg Arg Ala Asp Gly Thr Arg Ser
195 200 205

Ser Ser Ser Val Ser Tyr Ile His Pro Ile Ile Glu Arg Gly Asn Phe
210 215 220

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Thr Leu Leu Thr Gly Leu Arg Ala Arg Gln Leu Val Phe Asp Ala Asp
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Lys Arg Cys Thr Gly Val Asp Val Val Asp Ser Ala Phe Gly Arg Thr
245 250 255

His Arg Leu Ser Ala Arg Cys Glu Val Ile Leu Ser Thr Gly Ala Ile
260 265 270

Asp Ser Pro Lys Leu Leu Met Leu Ser Gly Ile Gly Pro Ala Ala His
275 280 285

Leu Ala Glu His Gly Val Glu Val Leu Val Asp Ser Pro Gly Val Gly
290 295 300

Glu His Leu Gln Asp His Pro Glu Gly Val Val Gln Phe Glu Ala Lys
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Gln Gln Met Val Gln Thr Ser Thr Gln Trp Trp Glu Ile Gly Ile Phe
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Gly Ser Val Pro Phe Asp Met Asn Thr Leu Arg Tyr Gly Tyr Pro Thr
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Thr Glu Asn Gly Phe Ser Leu Thr Pro Asn Val Thr His Ala Arg Ser

370

375

380

Arg Gly Thr Val Arg Leu Arg Ser Arg Asp Phe Arg Asp Lys Pro Ala

385

390

395

400

Val Asp Pro Arg Tyr Phe Thr Asp Pro Glu Gly His Asp Met Arg Val

405

410

415

Met Val Ala Gly Ile Arg Lys Ala Arg Glu Ile Ala Ala Gln Pro Ala

420

425

430

Met Ala Glu Trp Thr Gly Arg Glu Leu Ser Pro Gly Thr Glu Ala Gln

435

440

445

Thr Asp Glu Glu Leu Gln Asp Tyr Ile Arg Lys Thr His Asn Thr Val

450

455

460

Tyr His Pro Val Gly Thr Val Arg Met Gly Pro Ala Asp Asp Asp Met

465

470

475

480

Ser Pro Leu Asp Pro Glu Leu Arg Val Lys Gly Val Thr Gly Leu Arg

485

490

495

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<213> *Arthrobacter pascens*

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<211> 37

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer

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